JDBC - SELECT DATABASE EXAMPLE

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This tutorial provides an example on how to select a Database using JDBC application. Before executing following example, make sure you have the following in place:

- To execute the following example you need to replace *username* and *password* with your actual user name and password.
- Your MySQL or whatever database you are using is up and running.

Required Steps:

There are following steps required to create a new Database using JDBC application:

- **Import the packages**. Requires that you include the packages containing the JDBC classes needed for database programming. Most often, using *import java.sql.** will suffice.
- Register the JDBC driver. Requires that you initialize a driver so you can open a communications channel with the database.
- **Open a connection .** Requires using the *DriverManager.getConnection()* method to create a Connection object, which represents a physical connection with a **selected** database.

Selection of database is made while you prepare database URL. Following example would make connection with **STUDENTS** database.

• Clean up the environment. Requires explicitly closing all database resources versus relying on the JVM's garbage collection.

Sample Code:

Copy and past following example in JDBCExample.java, compile and run as follows:

```
//STEP 1. Import required packages
import java.sql.*;
public class JDBCExample {
   // JDBC driver name and database URL
   static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
  static final String DB_URL = "jdbc:mysql://localhost/STUDENTS";
   // Database credentials
   static final String USER = "username";
  static final String PASS = "password";
  public static void main(String[] args) {
  Connection conn = null;
   trv{
      //STEP 2: Register JDBC driver
      Class.forName ("com.mysql.jdbc.Driver");
      //STEP 3: Open a connection
     System.out.println("Connecting to a selected database...");
     conn = DriverManager.getConnection(DB_URL, USER, PASS);
     System.out.println("Connected database successfully...");
   }catch(SQLException se) {
      //Handle errors for JDBC
      se.printStackTrace();
   }catch(Exception e) {
```

```
//Handle errors for Class.forName
    e.printStackTrace();
}finally{
    //finally block used to close resources
    try{
        if(conn!=null)
            conn.close();
    }catch(SQLException se){
        se.printStackTrace();
    }//end finally try
}//end try
System.out.println("Goodbye!");
}//end main
}//end JDBCExample
```

Now let us compile above example as follows:

```
C:\>javac JDBCExample.java
C:\>
```

When you run **JDBCExample**, it produces following result:

```
C:\>java JDBCExample
Connecting to a selected database...
Connected database successfully...
Goodbye!
C:\>
```